Appl. No.: 10/676,818

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Art Unit: 3711; Docket No.: C03-27 Reply to Office Action of May 4, 2004

LISTING OF CLAIMS

1. (Currently amended) A method of aligning a putter, comprising the steps of: providing a putter having a head, a heel, a toe, a top surface, and a planar striking face comprising a removable reflecting surface for receiving and reflecting incident light, the top surface comprising at least one first reference line oriented substantially parallel to the striking face and a plurality of second reference lines oriented substantially perpendicular to the striking face;

providing a light source separate from the putter head;

directing light from the light source towards the reflecting surface such that the reflective surface is illuminated with and reflects a portion of the light towards a reference device; and

detecting the reflected light with a reference device, wherein the reference device is a photosensitive array and the reflected light incident upon the photosensitive array generates a signal capable of being transferred to an output device visible to a golfer;

determining the location of the reflected beam on the reference device relative to a central point prior to the golfer making a putting stroke:

correcting the orientation of the putter so that the reflected beam is directed at the center of the reference device; and

using the reference lines to provide a visual reference point to the golfer indicative of putter orientation.

- (Original) The method of claim 1, wherein the light source is a laser. 2.
- 3. (Original) The method of claim 1, wherein the reflecting surface is a mirrored surface, highly-polished fused silica, highly-polished glass, or a beam splitter.
- (Currently amended) The method of claim 1, wherein the reference device comprises an opaque surface, graph paper, a ruler, photosensitive array comprises a photomultiplier tube, an avalanche photodiode, or a charge-coupled device.
- 5. (Original) The method of claim 1, wherein the light is collimated, focused, or both.

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- (Original) The method of claim 1, wherein the planar striking face has a loft of between 6. about 2 degrees and about 7 degrees.
- 7. (Original) The method of claim 6, wherein the loft is about 4 degrees.
- (Original) The method of claim 1, wherein a spacer or a shim is disposed between the 8. planar striking face and the reflecting surface.
- 9. (Cancelled)
- (Currently amended) The method of claim 1, wherein the reference device reflecting 10. surface is a beam splitter oriented such that a first fraction of the light is reflected towards the reference device and a second fraction of the light is redirected perpendicular the incident light.
- (Original) The method of claim 10, wherein the redirected light strikes the ground below 11. the striking face such that the golfer may align a putting stroke path.
- 12. (Cancelled)
- (Currently amended) The method of claim [[12]] 1, wherein the output device comprises a 13. personal computer, a monitor, an oscilloscope, or a personal data assistant.
- 14. (Original) The method of claim 1, further comprising the step of: providing a second reference device located below the putter head.
- (Currently amended) A method of aligning a putter, comprising the steps of 15. providing a putter having a head, a heel, a toe, a top surface, and a planar striking face having a loft of about 4 degrees and comprising a reflecting surface for receiving and reflecting incident light, the reflecting surface being oriented vertically by a shim or a spacer, and the top surface comprising at least one first reference line oriented substantially parallel to the striking face and a plurality of second reference lines oriented substantially perpendicular to the striking face;

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providing a light source separate from the putter head;

directing light from the light source towards the reflecting surface such that the reflective surface is illuminated with and reflects a portion of the light;

detecting the reflected light with a reference device; and

comparing the reflected light to a central location on the reference device so that a golfer may determine the orientation of the putter head; and

using the reference lines to provide a visual reference point to the golfer indicative of putter orientation.

16-20. (Cancelled)